DERWENT-ACC-NO:

2000-283531

DERWENT-WEEK:

200651

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TITLE:

New pyrrolo(2,3-d)pyrimidine derivatives,

useful for

treatment of e.g. angiogenesis, vascular

permeability,

immune response, inflammation, cancer and

respiratory

disorders and to decrease fertility are protein

kinase

inhibitors

INVENTOR: ARNOLD, L D; CALDERWOOD, D ; DENG, B B ; HIRST, G ; JOHNSTON, D N

; MAZDIYASNI, H ; MUNSCHAUER, R ; RAFFERTY, P ; TOMETZKI, G B ; TWIGGER, H

L ; ARNOLD, D ; DENG, B ; JOHNSTON, N ; TOMETZKI, B ; TWIGGER, L ; JOHNSON, D N ; MUNSCHUER, R ; HIRST, G C ; ARNOLD, L ; MAZDIYASNI, H H G

PATENT-ASSIGNEE: BASF AG[BADI] , ABBOTT GMBH & CO KG[ABBO], ARNOLD L[ARNOI], CALDERWOOD D[CALDI], DENG B B[DENGI], HIRST G C[HIRSI],

JOHNSTON D N[JOHNI], , MAZDIYASNI H[MAZDI], MUNSCHAUER R[MUNSI]

PRIORITY-DATA: 1998US-100954P (September 18, 1998) , 1998US-0042702 (March 17,

1998) , 1999US-0399083 (September 17, 1999)

PATENT-FAMILY:

	PUB-NO		PUB-DATE	LANGUAGE
	PAGES	MAIN-IPC	•	
	DE 69928414	1 T2	August 3, 2006	N/A
	000	C07D 487/00		
₩O 200017202 A1			March 30, 2000	E .
, -		C07D 487/04		
	AU 9960475	A	April 10, 2000	N/A
	000	C07D 487/04		
NO 200101357 A			May 14, 2001	N/A
	000	C07D 487/04		
	EP 1114052	A1	July 11, 2001	E
	000	C07D 487/04		
CZ 200100959 A3			December 12, 2001	N/A
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		January 8, 2002	N/A
000	C07D 487/04		
KR 2001085	822 A	September 7, 2001	N/A
000	C07F 009/44		
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000	C07D 487/04		
	01 A	May 29, 2002	N/A
272	C07D 000/00		
	55 A2	June 28, 2002	N/A
000	C07D 487/04		
	359 W	August 27, 2002	N/A
257	C07D 487/04		
	В	September 19, 2002	N/A
000	C07D 487/04		
		November 1, 2001	N/A
000	A61K 031/505		
SK 2001003	85 A3	March 4, 2003	N/A
000	C07D 487/04		
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000	C07D 487/04	•	
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EP 1114052	B1	November 16, 2005	E
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DE 6992841	4 E	December 22, 2005	N/A
000	C07D 487/04		
ES 2253930	Т3	June 1, 2006	N/A
	C07D 487/04		

DESIGNATED-STATES: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ

DE DK DM

EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR

LS LT LU

LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR

TZ UA UG

US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE

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IE IT LI

LT LU LV MC MK NL PT RO SE SI AL AT BE CH CY DE DK ES FI FR GB GR ES FI FR GB GR

IE LT LI

LU LV MC MK NL PT RO SE SI

APPLICATION-DATA:

PUB-NO APPL-DESCRIPTOR APPL-NO

APPL-DATE

DE 69928414T2 N/A 1999DE-0628414

Contombor 17 1999		
September 17, 1999 DE 69928414T2	N/A	1999EP-0969414
September 17, 1999	N/A	199911 0909114
DE 69928414T2	N/A	1999WO-US21536
September 17, 1999	N/ A	1999110 0021330
DE 69928414T2	Based on	EP 1114052
	based on	Br III4052
N/A	Based on	WO 200017202
DE 69928414T2	based on	WO 200017202
N/A	NT / 7	1999WO-US21536
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NO 200101357A	N/A	2001NO-0001357
March 16, 2001		
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US20030187001A1	CIP of	1998US-0042702
March 17, 1998	021 02	
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US20030187001A1	N/A	1999US-0399083
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US20030187001A1	CIP of	US 6001839
N/A NZ 510587A	N/A	1999NZ-0510587
September 17, 1999	N/A	1999112 0310307
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IN 200100364P4	N/A	2001IN-CN00364
March 16, 2001 IN 200100364P4	N/A	1999WO-US21536
N/A	N/A	100000 0021000
EP 1114052B1	N/A	1999EP-0969414
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EP 1114052B1	Based on	WO 200017202
N/A DE 69928414E	N / 7\	1999DE-0628414
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DE 69928414E	Based on	EP 1114052

N/A WO 200017202 DE 69928414E Based on N/AN/A1999EP-0969414 ES 2253930T3 September 17, 1999 ES 2253930T3 Based on EP 1114052 N/A 200100385 A3 , US 20030187001 A1 , NZ 510587 A INT-CL (IPC): A61K031/505, A61K031/519, A61P001/04, A61P003/10 A61P009/00 , A61P009/10 , A61P011/00 , A61P015/00 , A61P017/02 , A61P019/02 , A61P027/00 , A61P027/06 , A61P029/00 , A61P035/00 , A61P035/04 , A61P037/02 , A61P043/00 , C07D000/00 , C07D487/00 , C07D487/02 , C07D487/04 , C07F009/44 ABSTRACTED-PUB-NO: WO 200017202A BASIC-ABSTRACT: NOVELTY - 4-Aminopyrrolopyrimidines (I) are new. DETAILED DESCRIPTION - 4-Aminopyrrolopyrimidines of formula (I) are new. A = 6-membered aromatic ring or 5 or 6 membered heteroaromatic ring optionally substituted with 1 or more Q; Q = aliphatic, aryl, heteroaromatic, cycloalkyl, heterocycloalkyl, heteroaralkyl, alkoxycarbonyl, alkyl thioether, alkyl sulfoxide, alkylsulfone, aryl thioether, aryl sulfoxide, aryl sulfone, alkyl carbonyl, aliphatic ether, aromatic ether, carboxamido, alkynyl, alkyl amido, alkyl carboxamido, amido, aryl carboxamido, styryl, aralkyl amido or aralkylcarboxamido optionally substituted), halogen, cyano, nitro, NR4R5, COOH, OH, CO2haloalkyl, C(O)-haloalkyl, tetrazolyl, trifluoromethylsulfonamido, or trifluoromethylcarbonylamino; L = X, X(O), SO2, NR, N(C(O)OR), N(C(O)R), N(SO2R), CH2X, CH2NR, CH(NR), CH2N(C(O)R), CH2N(C(O)OR), CH2N(SO2R), CH(NHR), CH(NHC(O)R),

CH(NHC(O)OR), CH(OC(O)R), CH(OC(O)NHR), CH=CH, C(=NOR), CH(OR),

CH(NHSO2R),

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X(0)NR
N(R)X(O), NRSO2, OC(O)NR, NRX(O)NR, NRC(O)O, SO2NR, N(C(O)R)S(O),
N(C(0)R)SO2
NRS(O)NR, NRSO2NR, X(O)NRC(O), SO2NRC(O), OS(O)NR, OSO2NR, NRS(O)O,
NRSO2O,
NRS(O)C(O), NRSO2C(O), SON(C(O)R), SO2N(C(O)R), NRSO2NR, C(O)O,
NRP(OR')O,
NRP(OR'), NRP(O)(OR')O, NRP(O)(OR'), N(C(O)R)P(OR')O, N(C(O)R)P(OR'),
N(C(O)R)P(O)(OR')O, N(C(O)R)P(OR'), RbNRSO2, RbNRP(O), RbNRP(O)O or a
formula (i) - (vi);
X = 0, S
R, R' = aliphatic, aromatic, heteroaromatic or cycloalkyl groups (all
optionally substituted), H or acyl;
Rb = alkylene group, which taken with sulfonamide, phosphonamide or
phosphinamide to which it is attached forms a 5 or 6 membered ring
fused to A;
R85 = together with phosphinamide or phosphonamide is a 5 - 7
membered
aromatic, heteroaromatic or heterocyclic ring;
R1 = H, 2-phenyl-1,3-dioxan-5-yl, 1-6C alkyl, 3-8C cycloalkyl, 5-7C
cycloalkenyl or optionally substituted phenyl-(1-6C alkyl), the
alkvl,
cycloalkyl and cycloalkenyl optionally substituted by 1 or more ORa,
provided
that ORa is not located on a C attached to N;
Ra = H, 1-6C alkyl or 3-6C cycloalkyl;
R2 = aliphatic, cycloalkyl, aromatic, heteroaromatic,
heterocycloalkyl,
aralkyl, heteroaralkyl (all optionally substituted), H, OH, CN, NR4R5
or
C(O)NR4R5;
R3 = cycloalkyl, aromatic, heteroaromatic, heterocycloalkyl (all
optionally
substituted);
R4, R5 = H, azabicycloalkyl, optionally substituted alkyl or Y-Z'; or
NR4R5 = 3 - 7 membered optionally substituted heterocycloalkyl,
heterobicycloalkyl or heteroaromatic group;
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Y = C(0), (CH2)p, SO2, C(0)O, SO2NH, C(0)NH, (CH2)pX, (CH2)pNH,

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(CH2)pS(O) or
(CH2) pSO2;
p, j = 0 - 6; and
Z' = alkyl, amino, aryl, heteroaryl or heterocycloalkyl (all
optionally
substituted).
provided that when:
L = NRSO2, NRC(O), NRC(O)O, SO2NR or OC(O)NR, then R3 is alkyl,
alkenyl or
aralkyl (all optionally substituted);
L = CH2NR, C(O)NR or NRC(O), and R3 = azacycloalkyl or azaheteroaryl,
then j =
0; and
L = 0, and R3 = phenyl, then j = 0.
An INDEPENDENT CLAIM is provided for a method of inhibiting protein
kinase
activity by administering (I), its salt, prodrug or active
metabolite.
ACTIVITY - Cytostatic; vasotropic; immunosuppressive;
immunomodulator;
antiinflammatory; antiulcer; antibacterial; virucide; anti-HIV;
protozoacide;
antipsoriatic; osteopathic; nephrotropic; respiratory; hepatotropic;
hemostatic; antiasthmatic; gynecological; dermatological; muscular;
gastrointestinal; antirheumatic; antiarthritic; neuroprotective;
antianemic;
ophthalmological; cardiovascular; antiarteriosclerotic; vasotropic;
contraceptive.
Female Balb/c mice were treated with pregnant mare's serum
qonadotropin, then 2
days later with hCG and the next day with compounds of the invention.
minutes later, animals were injected with 17-estradiol and sacrificed
2-3 hours
       The uterus was removed, weighed, blotted and weighed again to
later.
give the
fluid content as indicator of inflammation. (I) inhibited the
formation of
edema (no numerical data).
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MECHANISM OF ACTION - Protein Kinase inhibitor; PDGF antagonist; IGF

antagonist; Src inhibitor;

USE - For inhibition of protein kinases, particularly in treatment of angiogenesis, vascular permeability, immune responses or inflammation and

specifically for treatment of ulcers, ulcerative colitis, Lyme disease, sepsis,

infection by Herpes simplex, Herpes zoster, HIV, parapoxvirus, protozoa or

toxoplasmosis, von Hippel Lindau disease, pemphigoid, psoriasis, Paget's

disease, polycystic kidney disease, fibrosis, sarcoidosis, cirrhosis, hyperviscosity syndrome, Oster-Weber-Rendu disease, <u>COPD</u> (chronic obstructive

pulmonary disease), asthma, exudates, ascites, pleural or pericardial effusions, edema, ovarian hyperstimulation syndrome, pre-eclampsia, menometrorrhagia, endometriosis, chronic inflammation, SLE (not defined),

glomerulonephritis, synovitis, IBD (irritable bowel disease), Crohn's disease,

rheumatoid and osteo-arthritis, multiple sclerosis, graft rejection, sickle

cell anemia, ocular conditions, cardiovascular conditions (e.g. atherosclerosis, restenosis, ischemia, vascular occlusion, venous malformation

and carotid obstructive disease), cancer, Crow-Fukase syndrome, diabetic

conditions (e.g. glaucoma, diabetic retinopathy or microangiopathy) and to

decrease fertility (claimed).

ADVANTAGE - Active against several protein kinases.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: NEW PYRROLO **PYRIMIDINE** DERIVATIVE USEFUL TREAT ANGIOGENESIS

VASCULAR PERMEABLE IMMUNE RESPOND INFLAMMATION CANCER RESPIRATION

DISORDER DECREASE FERTILITY PROTEIN KINASE INHIBIT

DERWENT-CLASS: B02

CPI-CODES: B05-B01J; B06-D08; B14-A01; B14-A02; B14-A02B1; B14-A03; B14-C03; B14-C06; B14-C09; B14-C09B; B14-D06; B14-E08; B14-E10; B14-F01; B14-F03; B14-F07; B14-F08; B14-G01B; B14-G02; B14-G03; B14-H01;

B14-H01B; B14-J01; B14-J05; B14-K01; B14-K01A; B14-L06;

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B14-N01;
           B14-N03; B14-N07; B14-N14; B14-N17; B14-N17C; B14-P01;
B14-S01;
           B14-S04;
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             K0
                  K3
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   M311 M321 M344 M362 M391 M412 M511 M520 M532 M541
   M710 M904 M905 P210 P220 P420 P421 P423 P431 P517
   P520 P522 P616 P617 P633 P714 P721 P723 P738 P811
   P812 P814 P815 P816 P820 P822 P922
   Ring Index
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Chemical Indexing M2 *08*
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Specfic Compounds A1MSHT A1MSHN

Chemical Indexing M2 *12*

Fragmentation Code C316 D011 D013 D840 G014 G015 G030 G112 G553 H1 H201 H6 H601 H609 H643 K0 H100 H121 H161 H2 K3 K353 M1 M113 M121 M147 M280 M320 M412 M511 M520 M532 M541 M710 M904 M905 P210 P220 P420 P421 P423 P431 P517 P520 P522 P616 P617 P633 P714 P721 P723 P738 P811 P812 P814 P815 P816 P820 P822 P922 Ring Index 01261 Specfic Compounds A1MSIT A1MSIN Chemical Indexing M2 *13* Fragmentation Code C316 D011 D013 D840 G010 G015 G030 G112 G553 H1 H100 H121 H161 H2 H201 H5 H541 H8 K0 **K**3 M113 M121 M147 M210 M211 M272 M281 M320 K353 M1 M412 M511 M520 M532 M541 M710 M904 M905 P210 P220 P420 P421 P423 P431 P517 P520 P522 P616 P617 P633 P714 P721 P723 P738 P811 P812 P814 P815 P816 P820 P822 P922 Ring Index 01261 Specfic Compounds A1MSJT A1MSJN Chemical Indexing M2 *14* Fragmentation Code C316 M710 M905 P210 P220 P420 P421 P423 P431 P517 P520 P522 P616 P617 P633 P714 P721 P723 P738 P811 P812 P814 P815 P816 P820 P822 P922 Ring Index 01261 Specfic Compounds Almskt Almskn Chemical Indexing M2 *15* Fragmentation Code C316 D011 D013 D840 G015 G019 G030 G112 G553 H1 H100 H121 H161 H2 H601 H603 H608 H643 H201 H6 M113 M121 M147 M280 M320 M412 KΩ **K**3 K353 M1 M511 M520 M532 M541 M710 M904 M905 P210 P220 P420 P421 P423 P431 P517 P520 P522 P616 P617 P633 P714 P721 P723 P738 P811 P812 P814 P815 P816 P820 P822 P922 Ring Index

01261 Specfic Compounds A1MSLT A1MSLN

Chemical Indexing M2 *16*

Fragmentation Code

C316 D011 D013 D840 G015 G019 G030 G112 G553 H1

H100 H121 H161 H2 H201 H6 H601 H609 H643 K0

K3 K353 M1 M113 M121 M147 M280 M320 M412 M511

M520 M532 M541 M710 M904 M905 P210 P220 P420 P421

P423 P431 P517 P520 P522 P616 P617 P633 P714 P721

P723 P738 P811 P812 P814 P815 P816 P820 P822 P922

Ring Index

01261

Specfic Compounds

A1MSMT A1MSMN

Chemical Indexing M2 *17*

Fragmentation Code

G553 H1 H100 H121 H161 H2 H201 H6 H601 H609

H643 K0 K3 K353 M1 M113 M121 M147 M280 M320

M412 M511 M520 M532 M541 M710 M904 M905 P210 P220

P420 P421 P423 P431 P517 P520 P522 P616 P617 P633

P714 P721 P723 P738 P811 P812 P814 P815 P816 P820

P822 P922

Ring Index

01261

Specfic Compounds

Almsnt Almsnn

Chemical Indexing M2 *18*

Fragmentation Code

C316 D011 D013 D840 G011 G015 G030 G112 G553 H1

H100 H121 H161 H2 H201 H6 H601 H603 H642 K0

K3 K353 M1 M113 M121 M147 M280 M320 M412 M511

M520 M532 M541 M710 M904 M905 P210 P220 P420 P421

P423 P431 P517 P520 P522 P616 P617 P633 P714 P721

P723 P738 P811 P812 P814 P815 P816 P820 P822 P922

Ring Index

01261

Specfic Compounds

A1MSOT A1MSON

Chemical Indexing M2 *19*

Fragmentation Code

C316 D011 D013 D840 G014 G015 G030 G112 G553 H1

H100 H121 H161 H2 H201 H6 H601 H602 H608 H643

KO K3 K353 M1 M113 M121 M147 M280 M320 M412

M511 M520 M532 M541 M710 M904 M905 P210 P220 P420

P421 P423 P431 P517 P520 P522 P616 P617 P633 P714

P721 P723 P738 P811 P812 P814 P815 P816 P820 P822 P922 Ring Index 01261 Specfic Compounds AlMSPT AlMSPN

Chemical Indexing M2 *20*

Fragmentation Code

C316 D011 D013 D840 G015 G017 G030 G112 G553 H1

H100 H121 H161 H2 H201 H6 H601 H602 H609 H643

K0 K3 K353 M1 M113 M121 M147 M280 M320 M412

M511 M520 M532 M541 M710 M904 M905 P210 P220 P420

P421 P423 P431 P517 P520 P522 P616 P617 P633 P714

P721 P723 P738 P811 P812 P814 P815 P816 P820 P822

P922

Ring Index

01261

Specfic Compounds

Chemical Indexing M2 *21*

A1MSQT A1MSQN

Fragmentation Code B615 B701 B711 B712 B720 B731 B741 B793 B813 B815 B819 B831 B840 C116 C216 C316 D010 D011 D013 D014 D019 D020 D029 D040 D049 D840 F010 F012 F015 F018 F019 F020 F021 F029 F163 F570 F599 G001 G002 G003 G010 G011 G012 G013 G014 G015 G016 G019 G020 G021 G022 G029 G030 G039 G040 G050 G100 G111 G112 G113 G221 G299 G551 G552 G553 G561 G562 G563 H1 H101 H102 H103 H121 H122 H123 H141 H142 H143 H161 H181 H182 H183 H201 H211 H321 H322 H323 H341 H342 H343 H401 H402 H403 H404 H405 H421 H422 H423 H424 H441 H442 H443 H444 H461 H481 H521 H522 H523 H541 H542 H543 H561 H562 H581 H582 H583 H584 H589 H592 H594 H596 H598 H599 H600 H608 H609 H621 H622 H623 H641 H642 H643 H681 H682 H683 H684 H685 H686 H689 H713 H714 H716 H721 H722 H723 H731 J011 J012 J013 J014 J111 J112 J113 J131 J132 J133 J211 J212 J221 J231 J232 J261 J271 J311 J312 J321 J322 J331 J332 J341 J342 J351 J361 J371 J372 J373 J581 J582 J583 K340 K351 K352 K353 K399 K442 K499 K620 K640 K699 K810 K830 K850 K899 L142 L143 L199 L410 L431 L432 L462 L463 L499 L520 L532 L550 L560 L599 L640 L699 M111 M112 M113 M115 M116 M119 M121 M122 L943 M1 M123 M124 M125 M126 M129 M131 M132 M133 M135 M136 M137 M139 M141 M142 M143 M146 M147 M148 M149 M150 M210 M211 M212 M213 M214 M215 M216 M220 M221 M222 M223 M224 M225 M226 M231 M232 M233 M240 M250 M262 M271 M272 M273 M280 M281 M282 M283 M311 M312 M313 M314 M315 M316 M320 M321 M322 M323 M331 M332 M333 M334 M340 M342 M343 M344 M349 M351 M362 M372 M373 M383 M391 M392 M393 M411 M412 M511 M512 M513 M520 M521 M522 M523 M530 M531 M532 M533 M540 M541 M542 M543 M630 M640 M650 M710 M904 M905 P210 P220 P420 P421 P423 P431 P517 P520 P522 P616 P617 P633 P714 P721 P723 P738 P811 P812 P814 P815 P816 P820 P822 P922 Ring Index 00061 00262 01261 Markush Compounds 200015-54801-T 200015-54801-N

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